

SAF-RC-040
300 Area D4 Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

No Distribution Required

KW 5/16/11
INITIAL/DATE

COMMENTS:

SDG D1110908 SAF-RC-040

Rad only

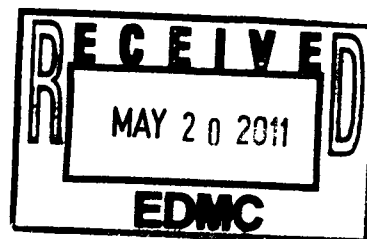
☒ Chem only

Rad & Chem

☒ Complete

Partial

Sample Location/Waste Site: Building 326





ALS
Laboratory
Group
formerly
DataChem

Cover

Page 1 of 7



Report Identification Number: D1110908
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM *RC-040 JK 5/6/11*
SAF#: ~~RC-001~~ / RC-040-583
Sample Receipt Date: 04/19/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
04/08/2011	J1FXL7	1110908001	NIOSH 9002	65678	Bulk
04/08/2011	J1FXL8	1110908002	NIOSH 9002	65678	Bulk
04/08/2011	J1FXL9	1110908003	NIOSH 9002	65678	Bulk
04/08/2011	J1FXM0	1110908004	NIOSH 9002	65678	Bulk
04/08/2011	J1FXM1	1110908005	NIOSH 9002	65678	Bulk
04/08/2011	J1FXM2	1110908006	NIOSH 9002	65678	Bulk
04/08/2011	J1FXM3	1110908007	NIOSH 9002	65678	Bulk
04/08/2011	J1FXM4	1110908008	NIOSH 9002	65678	Bulk
04/08/2011	J1FXM5	1110908009	NIOSH 9002	65678	Bulk
04/08/2011	J1FXM6	1110908010	NIOSH 9002	65678	Bulk

I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the contract specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Name: Peter P. Steen
Title: Chemist
Date: May 04, 2011



ALS
Laboratory
Group
formerly
DataChem

Case Narrative

Page 2 of 7

Report Identification Number: D1110908
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-040-583
Sample Receipt Date: 04/19/2011

General Workorder Information: There are ten samples in workorder 1110908 and ten samples in workorder 1110909 which were analyzed for asbestos in bulk material. No problems were encountered with the receipt of this sample.

Method Summary: All samples were examined for homogeneity. Non-homogeneous samples were ground to ensure homogeneity. Distinct layers were analyzed separately. The samples were prepared and examined for asbestos fibers utilizing the procedures outlined in NIOSH method 9002 (4th edition). A polarizing light microscope equipped with a 10x and a 16x eyepiece was used for the analysis. The area percentage of asbestos was estimated microscopically by a visual estimation of the fibers with a length-to-width aspect ratio of 3:1 or greater. If present, asbestos identities were confirmed with the appropriate refractive index oils applying dispersion staining techniques.

Sample Preparation: All samples were prepared in accordance with NIOSH method 9002 (4th edition).

Initial and Continuing Calibration Verification Analysis: N/A

Initial and Continuing Calibration Blank Analysis: N/A

Method Blank Analysis: N/A

Dilution(s): N/A.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) was prepared and analyzed with the sample batch. The results were within the control limit of +/- one reporting range.

Replicate Analysis: Two samples were replicated with this analysis batch.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: Sample results are reported by a visual estimation of the area percentage of asbestos. If necessary, a gravimetric ashing procedure may be used to remove certain non-asbestos material from the sample; a percentage calculation is used to correct for the removal of the non-asbestos material.

Miscellaneous Comments:

- 1110908001: Gray, compacted floor tile.
- 1110908002: Gray, compacted cove base.
- 1110908003: White, powdery/fibrous drywall.
- 1110908004: Black, compacted material.
- 1110908005: Gray, compacted floor tile.
- 1110908006: Gray, compacted floor tile.
- 1110908007: Gray, compacted cove base.
- 1110908008: Black, compacted material.
- 1110908009: Gray, compacted floor tile.
- 1110908010: Gray, compacted floor tile.
- 1110909001: Gray, compacted floor tile.
- 1110909002: Black, compacted cove base.
- 1110909003: White, powdery drywall (asbestos found in joint compound).
- 1110909004: Brown, compacted paneling.
- 1110909005: Gray, fibrous insulation.
- 1110909006: Gray, fibrous insulation.
- 1110909007: Black, compacted cove base.
- 1110909008: Gray, compacted floor tile.
- 1110909009: White, powdery drywall.
- 1110909010: Yellow/gray, fibrous insulation.



ALS
Laboratory
Group
formerly
DataChem

Results

Page 4 of 7

Report Identification Number: D1110908
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-040-583
Sample Receipt Date: 04/19/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1FXL7	1110908001	05/04/2011	<1	U	<1	U	<1	U
J1FXL8	1110908002	05/04/2011	<1	U	<1	U	<1	U
J1FXL9	1110908003	05/04/2011	<1	U	<1	U	<1	U
J1FXM0	1110908004	05/04/2011	<1	U	<1	U	<1	U
J1FXM1	1110908005	05/04/2011	<1	U	<1	U	<1	U
J1FXM2	1110908006	05/04/2011	<1	U	<1	U	<1	U
J1FXM3	1110908007	05/04/2011	<1	U	<1	U	<1	U
J1FXM4	1110908008	05/04/2011	<1	U	<1	U	<1	U
J1FXM5	1110908009	05/04/2011	<1	U	<1	U	<1	U
J1FXM6	1110908010	05/04/2011	<1	U	<1	U	<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J1FXL7	1110908001	05/04/2011	<1	U	<1	U
J1FXL8	1110908002	05/04/2011	<1	U	<1	U
J1FXL9	1110908003	05/04/2011	<1	U	<1	U
J1FXM0	1110908004	05/04/2011	<1	U	<1	U
J1FXM1	1110908005	05/04/2011	<1	U	<1	U
J1FXM2	1110908006	05/04/2011	<1	U	<1	U
J1FXM3	1110908007	05/04/2011	<1	U	<1	U
J1FXM4	1110908008	05/04/2011	<1	U	<1	U
J1FXM5	1110908009	05/04/2011	<1	U	<1	U
J1FXM6	1110908010	05/04/2011	<1	U	<1	U
Required Detection Limit (RDL)			1		1	

U - Parameter not detected above LOD

J - Parameter between LOD and RDL

** - Not provided or unable to calculate

NA - Not Applicable

QC Summary

Report Identification Number: D1110908
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF: RC-001 / RC-040-583
 Sample Receipt Date: 04/19/2011

Batch ID: 65678

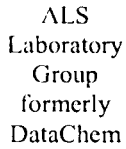
QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107918	LCS	Anthophyllite	%	ND	ND
QC107918	LCSD	Anthophyllite	%	ND	ND
QC107918	LCS	Chrysotile	%	5	13
QC107918	LCSD	Chrysotile	%	10	13

MB - Method Blank
 LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 MS - Matrix Spike
 MSD - Matrix Spike Duplicate
 LD - Laboratory Duplicate

NA - Not Applicable
 ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0
 MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

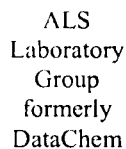
LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.
 MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.
 LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100



Page 6 of 7

ALS DataChem
960 West Levoe Drive
Salt Lake City, Utah 84123-2547

Web Page: www.datachem.com
E-mail: lab@datachem.com



Page 7 of 7

2011-04-19-1110908-02

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-583	
Collector Innos/Deros/Repko	Project Designation 300 Area D4 Waste Characterization Sampling - Other Solid	Company Contact Mike Stankovich	Telephone No. 5094307142	Project Coordinator KESSNER, JH	Price Code 9K	Data Turnaround 7 Days	
Ice Chest No. <u>W470000002</u> <u>W47</u> <u>4/8/11</u>		Field Logbook No. EL-1518-18		COA RDANXXZFR00		Method of Shipment Hand Delivered - <u>4/4-18-11</u> <u>Hand</u> <u>Ex</u>	
Shipped To <u>At 4-15-11</u> <u>Test America Richmond</u> <u>ALC-5-L</u>		Office Property No. NA		Bill of Lading/Air Bill No. <u>NA At 4-18-11</u> <u>7946</u> <u>6521</u> <u>1976</u>			
POSSIBLE SAMPLE HAZARDS/REMARKS							
Asbestos							
Special Handling and/or Storage							
None							
SAMPLE ANALYSIS							
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Type of Container	No. of Container(s)	
J1FXM2	OTHER SOLID	4-8-11	0802	None	GFP	1	
J1FXM3	OTHER SOLID		0804				
J1FXM4	OTHER SOLID		0806				
J1FXM5	OTHER SOLID		0808				
J1FXM6	OTHER SOLID		0811				
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
James Deros		4/8/11 1310	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
Traci L. Deros		4/8/11 1400	MS Stankovich	4/8/11			
Relinquished By/Received From		Date/Time	Received By/Stored In	Date/Time	Name		
MS Stankovich		4/8/11 1400	Traci L. Deros	4/8/11			